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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 12

Complete if Known

Application Number	10/669,954
Filing Date	Sept. 23, 2003
First Named Inventor	Anand P. Narayan
Art Unit	
Examiner Name	
Attorney Docket Number	TCOM-0007

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
↓ /KT/		US-4088955	05-09-1978	Baghdady	
		US-4309769	01-05-1982	Taylor, Jr.	
		US-4359738	11-16-1982	Lewis	
		US-4665401	05-12-1987	Garrard et al.	
		US-4670885	06-02-1987	Parl et al.	
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		US-4856025	10-08-1989	Takai	
		US-4893316	01-09-1990	Janc et al.	
		US-4922506	05-01-1990	McCallister et al.	
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		US-4965732	10-23-1990	Roy III et al.	
		US-5017929	05-21-1991	Tsuda	
		US-5099493	05-24-1992	Zeger et al.	
		US-5105435	04-14-1992	Stilwell	
		US-5109390	04-28-1992	Gilhousen et al.	
		US-5119401	06-02-1992	Tsujimoto	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
↓ /KT/		EP 0558910 A1	01-25-1993	Blaupunkt-Werke GmbH		435972
		EP 0610989 A2	01-31-1994	Phillips Patentverwaltung GmbH		435972
		JP2000-13360A	01-14-2000	NEC Corp.		435972
		DE 4201439 A1	07-22-1993	Daimler-Benz		435972
		DE 4326843 A1	02-16-1995	Richard Hirschmann GmbH & Co		435972

Examiner Signature	/Khai Tran/	Date Considered	04/03/2008
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		Number-Kind Code ² (if known)			
/KT/		US- 5218359	06-08-1993	Minamisono	
		US- 5218619	06-08-1993	Dent	
		US- 5220687	06-05-1993	Ichikawa et al.	
		US- 5224122	06-29-1993	Bruckert	
		US- 5237586	08-17-1993	Bottomley	
		US- 5263191	11-16-1993	Dickerson	
		US- 5280472	01-18-1994	Gilhousen et al.	
		US- 5305349	04-19-1994	Dent	
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		US- 5343493	08-30-1994	Karimullah	
		US- 5343496	08-30-1994	Honig et al.	
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		US- 5353302	10-04-1994	Bi	
		US- 5386202	01-31-1995	Cochran et al.	
		US- 5390207	02-14-1995	Fenton et al.	
		US- 5394110	02-28-1995	Mizoguchi	
		US- 5396256	03-07-1995	Chiba et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
/KT/		DE 4343959 A1	06-29-1995	Richard Hirschmann GmbH & Co		522068
/KT/		WO 93/12590	06-24-1995	Array-Comm, Inc.		522066
/KT/		GB 2280575 A	02-01-1995	Roke Manor Research Limited		522068
						522066
						522066

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/KT/ ↓ /KT/		US-5440265	08-08-1995	Cochran et al.	
		US-5448600	09-05-1995	Lucas	
		US-5481570	01-02-1996	Winters	
		US-5506865	04-09-1996	Weaver Jr.	
		US-5513176	04-30-1996	Dean et al.	
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		US-5602833	02-11-1997	Zehavi	
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		US-5736964	04-07-1998	Ghosh et al.	
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		US-5844521	12-01-1998	Stephens et al.	
		US-5859613	01-12-1999	Otto	
		US-5872540	02-16-1999	Casabona	
		US-5872776	02-16-1999	Yang	
		US-5926761	07-20-1999	Reed et al.	
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						548157
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↓ /KT/		US- 5995499	11-30-1999	Hottinen et al.	
		US- 6002727	12-14-1999	Uesugi	
		US- 6014373	01-11-2000	Schilling et al.	
		US- 6018317	01-25-2000	Dogan et al.	
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		US- 6101385	08-08-2000	Monte et al.	
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		US- 6131013	10-10-2000	Bergstrom et al.	
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		US- 6141332	10-31-2000	Lavaen	
		US- 6154443	11-28-2000	Huang et al.	
		US- 6157685	12-05-2000	Tanaka et al.	
		US- 6157842	12-05-2000	Kaisson et al.	
		US- 6157847	12-05-2000	Buehrer et al.	
		US- 6163696	12-19-2000	Bi et al.	
/KT/		US- 6166690	12-26-2000	Lin et al.	

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						601437
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/KT/		US- 6172969	01-09-2001	Kawakami et al.	
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		US- 6192067	02-20-2001	Toda et al.	
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		US- 6215812	04-10-2001	Young et al.	
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/K11/ ↓ /K11/		US- 6282233	08-28-2001	Yoshida	
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		US- 6317453	11-13-2001	Chang	
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		US- 6351235	02-26-2002	Stilp	
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/KT/		US- 6380879	04-30-2002	Kober et al.	
		US- 6396804	05-28-2002	Odenwalder	
		US- 6430216	08-06-2002	Kober et al.	
		US- 6459693	10-01-2002	Park et al.	
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		US- 20030053526	03-20-2003	Reznik	
		US- 6285861	09-04-2001	Bonaccorso et al.	
		US- 3742201	06-26-1973	Groginsky	
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	US- 6404760	06-11-2002	Holtzman et al.		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
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		Application Number	10/669,954
		Filing Date	Sept. 23, 2003
		First Named Inventor	Anand P. Narayan
		Art Unit	
		Examiner Name	
Sheet 8	of 12	Attorney Docket Number	TCOM-0007

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
↓ /KT/		US- 6584115	06-24-2003	Suzuki	
		US- 6266529	07-24-2001	Chheda	
		US- 5978413	11-02-1999	Bender	
		US- 6590888	07-08-2003	Ohshima	
		US- 20020176488	11-28-2002	Kober et al.	
		US- 6032056	02-29-2000	Reudink	
		US- 4601046	07-15-1986	Halpern	
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		Country Code ³ : Number ⁴ : Kind Code ⁵ (if known)				
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/669,954
		Filing Date	Sept. 23, 2003
		First Named Inventor	Anand P. Narayan
		Art Unit	
		Examiner Name	
		Attorney Docket Number	TCOM-0007
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/KT/		BEST, Phase-Locked Loops - Design, Simulation, and Applications, pgs. 251-287, McGraw-Hill, 1999	

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			Application Number	10/669,954	
		Filing Date	Sept. 23, 2003		
		First Named Inventor	Anand P. Narayan		
		Art Unit			
		Examiner Name			
Sheet	10	of	12	Attorney Docket Number	TCOM-0007

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			Filing Date	Sept. 23, 2003
			First Named Inventor	Anand P. Narayan
			Art Unit	
			Examiner Name	
			Attorney Docket Number	TCOM-0007
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/KT/		KAPLAN, Understanding GPS - Principles and Applications, 1996, pgs. 83-236, Artech House, Norwood, MA, US	
↓		SCHARF, Statistical Signal Processing - Detection, Estimation, and Time Series Analysis, 1990, pgs. 23-75 and 103-178, Addison-Wesly, Reading, MA, US	12
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↓		ALEXANDER ET AL., A Linear Receiver for Coded Multiuser CDMA, IEEE Transactions on Communications, May 1997, Vol. 45, No. 5	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	Sept. 23, 2003
			First Named Inventor	Anand P. Narayan
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			Attorney Docket Number	TCOM-0007
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/KT/		THOMAS, Thesis for the Doctor of Philosophy Degree, UMI Dissertation Services, Jun. 1996, Ann Arbor, MI, US	
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